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CLIENT/SUBJECT			W O NO
TASK DESCRIPTION			TASK NO
PREPARED BY	DEPT	DATE	APPROVED BY
MATH CHECK BY	DEPT	DATE	[

\_\_\_\_\_ DEPT \_\_\_\_\_ DATE \_\_\_\_

FRP-06-AR-000053

filed w/FRP-06-A-0K-00001;

NO LONGER PART OF MULTI-SITE PL PLAN MAGELLAN NEW OWNER -5/27/05 MC



\_ DEPT\_\_\_\_DATE \_\_\_\_



# Ft Smith Terminal Spill Response Plan

Developed by



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Houston Texas 77070 USA

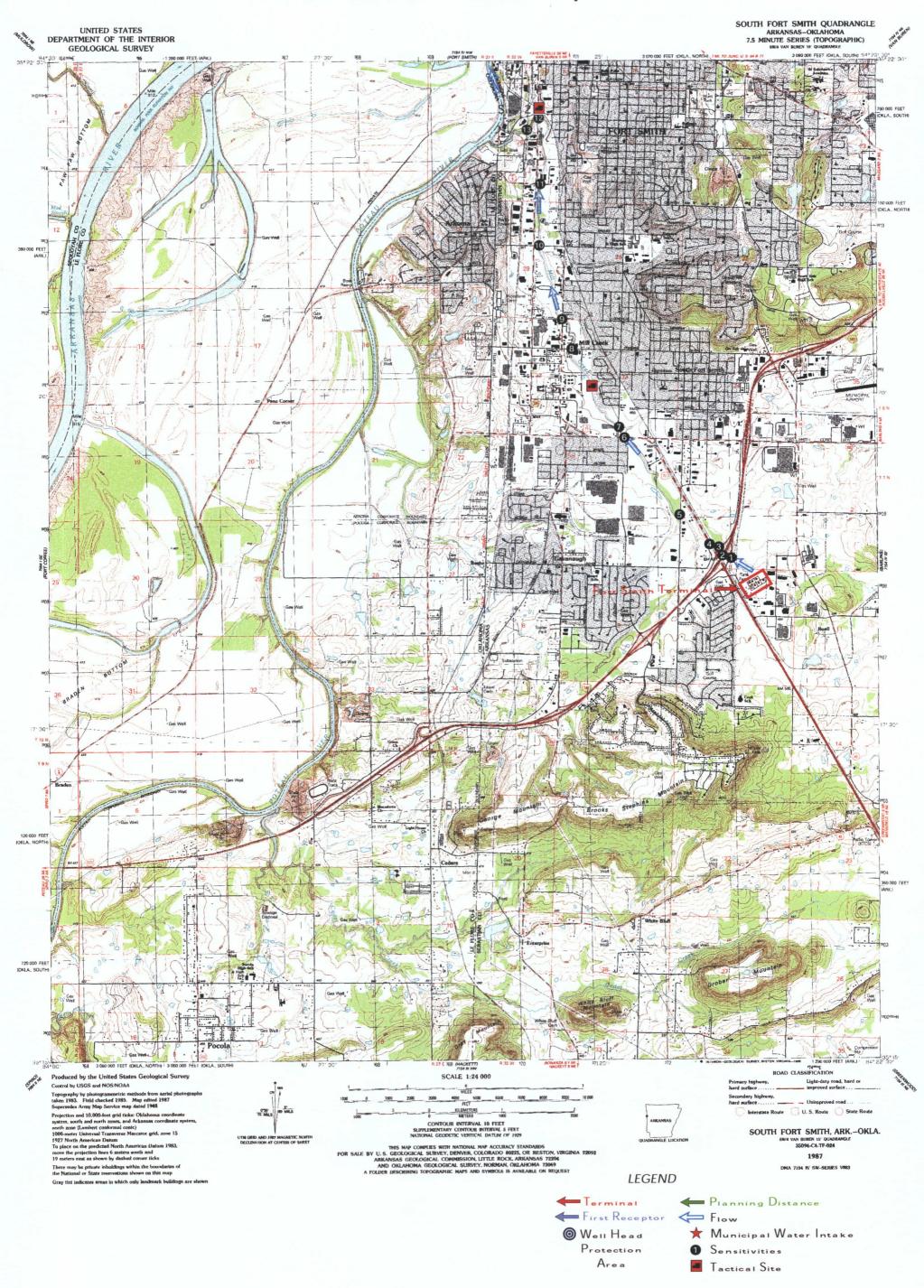
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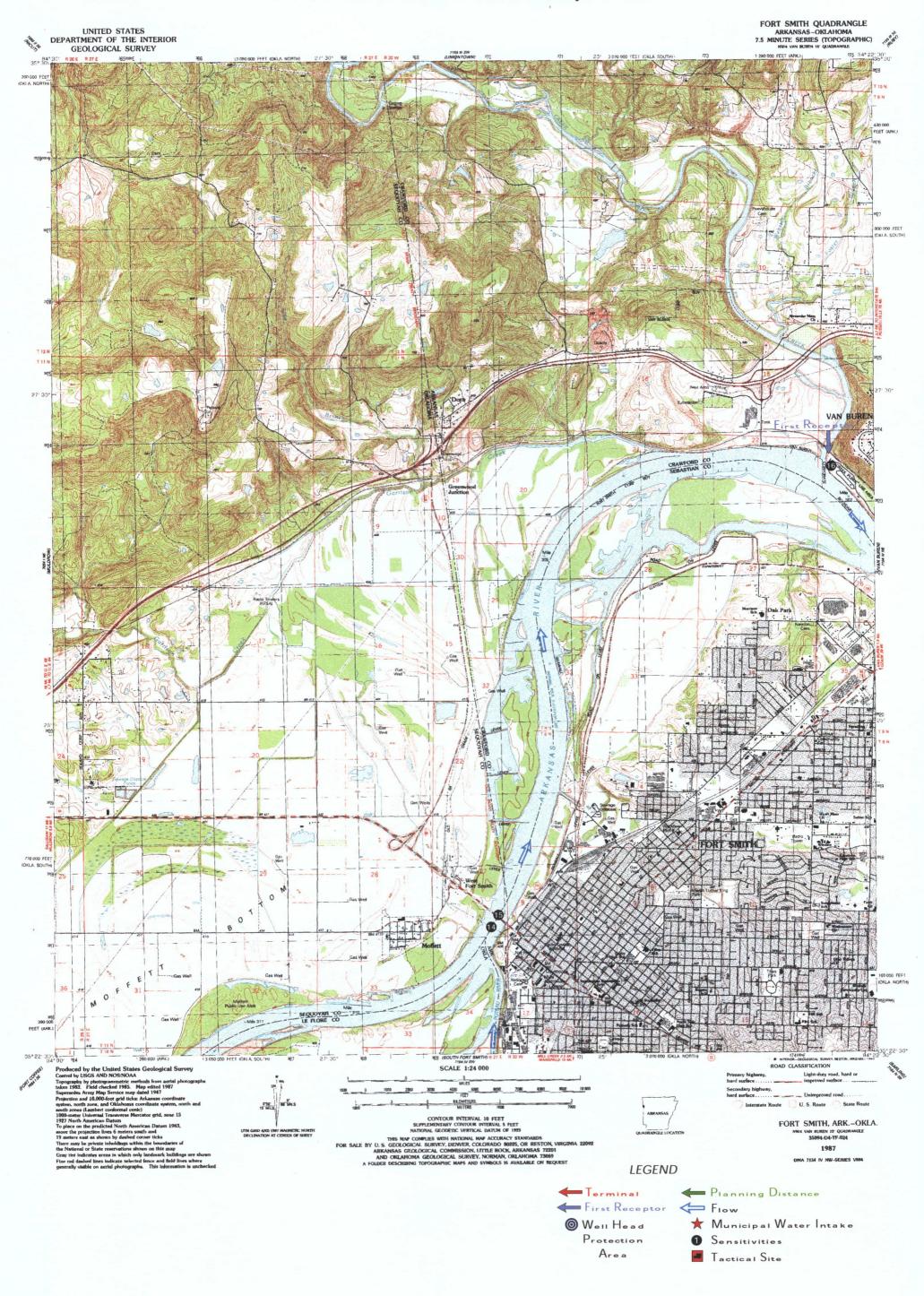
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### Fort Smith Terminal Map 1 of 3



# Fort Smith Terminal Map 2 of 3

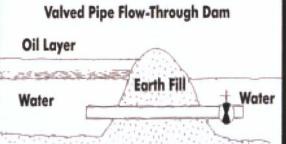


# Fort Smith Terminal Map 3 of 3

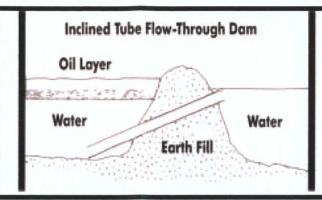


Site 1 Ft. Smith Terminal



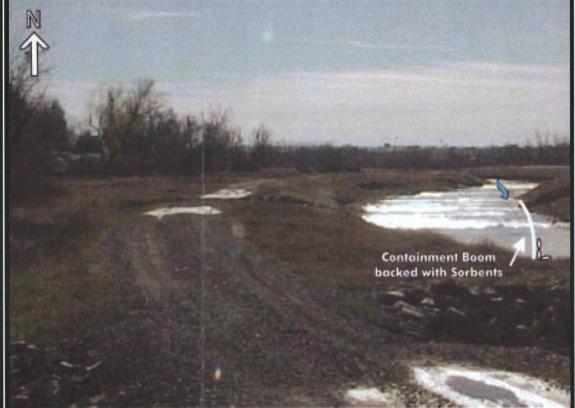


VALVED PIPE(S) OF ADEQUATE CAPACITY TO BYPASS WATER



WATER FLOW
OR STREAM
IS BYPASSED
TO MAINTAIN
RESERVOIR LEVEL.
ELEVATE DISCHARGE
END OF TUBE(S)
TO DESIRED
RESERVOIR LEVEL.





#### RESPONSE STRATEGY

Latitude/Longitude: N 35° 20' 05"/W 94° 25' 07"

Location: Sebastian County, Fort Smith, AR

Water Way: Mill Creek

Owner: TBD

Distance from Spill Source: 3 miles

Map Reference: South Fort Smith

Response Objective: Containment and Recovery

Response Tactic: - Normal Conditions

Utilize trac-hoe to build dam with inclined tubes for continued water flow. Deploy sorbent boom downstream of the dam to capture any free floating product that escapes the dam. Cover the dam and adjoining shore with poly sheeting to prevent soil permeation.

# DRIVING DIRECTIONS From I-540 (Exit 10) to Old Greenwood Rd North West on Old Greenwood Rd for 0.1 miles to Phoenix St West on Phoenix St for 0.5 miles to Phoenix Ave West on Phoenix Ave for 0.8 miles to Jenny Lind Rd South on Jenny Lind Rd for 0.3 miles to Utica St West on Utica St for 0.1 miles to Savannah Dr North on Savannah Dr for 0.1 mile to Tulsa St West on Tulsa St for 0.1 miles to work site.

DEAMICAL RESPONSE FLAMANAC

February 2005

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RECOMMENDED EQUIPMENT QUANTITY   DESCRIPTION		RECOMMENDED EQUIPMENT		
GOARTITI	DESCRIPTION	QUANTITY	DESCRIPTION	
200 ft	Sorbent Boom	QUANTITI	DESCRIPTION	
1	Vac Truck(s)	3	Portable Radios(s)	
1	Frac Tank(s)			
1	Skimmer(s) - (Suction, Weir, Oleophilic)	1	Light tower(s)	
100ft	3/8" Polypropylene Line	1	Port-o-let(s)	
12	Stake(s)			
4	Sledge hammer(s)	R	ECOMMENDED PERSONNEL	
6 bales	Sorbent pad(s)	NUMBERS	DESCRIPTION	
2 cases	85 gallon drum liners			
2 rolls	Poly Sheeting	1	Supervisor(s)	
4	Metal Culvert Pipes	4	Vac Truck Operator(s)	
1	Trac-hoe	-	vac Truck Operator(s)	
4	Shovels	2	Equipment Operator(s)	
1	Cell Phone(s)	4	Laborer(s)	

*Watercourse Description:* Creek, 25 ft wide, mud and rock banks and bottom, 0-2 ft deep, current 0-2 mph.

**Description of Worksite:** Residential area, multi-lane paved road access, moderate traffic.

*Critical Response Information:* Air monitoring and PPE per Site Safety Plan.

Date Last Revised: December 2001

Site 1

Site 2 Ft. Smith Terminal

RECOMMENDED EQUIPMENT







#### RESPONSE STRATEGY

Latitude/Longitude: N 35° 22' 02"/W 94° 25' 36"

Location: Sebastian County, Fort Smith, AR

Water Way: Mill Creek

Owner: TBD

Distance from Spill Source: 6 miles

Map Reference: South Fort Smith

Response Objective: Containment and Recovery

Response Tactic: - Normal Conditions

Deploy segments of containment boom across Mill Creek using shoreline anchoring technique to divert product to the left descending bank, where skimming operations can be performed. Deploy containment boom backed with sorbent boom downstream of collection point as backup boom.

LEGEND Origin ●
DRIVING DIRECTIONS

From I-540 (Exit 8) to SR 22 (Rogers Ave):

North West on SR 22 (Rogers Ave) for 3.5 miles to S 14th St

West on S 14th St for 0.1 miles to S A St

West on S A St for 0.4 miles to SR 255 (Wheeler Ave)

South on SR 255 (Wheeler Ave) for 1.1 miles to work site.

TECHNIC C O R								
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February 2005

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				RECOMMENDED EQUIPMENT		
1	QUANTITY	DESCRIPTION	DESCRIPTION CHANTITY DESCRIPTION			
	100 ft	Containment Boom	QUANTITY	DESCRIPTION		
	200 ft	Sorbent Boom	1	Light tower(s)		
	1	Vac Truck(s)		Light towor(o)		
	1	Frac Tank(s)	2	Port-o-let(s)		
	1	Work Boat(s)				
	1	Skimmer(s) - (Suction, Weir, Oleophilic)	R	ECOMMENDED PERSONNEL		
	200 ft	3/8" Polypropylene Line	NUMBERS	DESCRIPTION		
	8	Stake(s)	Nomberto	DESCRIPTION		
	2	Sledge hammer(s)	4	Super deer(e)		
	6 bales	Sorbent pad(s)	1	Supervisor(s)		
	3 case	85 gallon drum liners	1	Vac Truck Operator(s)		
ı	3 rolls	Poly Sheeting	1	Boat Operator(s)		
	1	Cell Phone(s)	'	Boat Operator(s)		
	2	Portable Radios(s)	4	Laborer(s)		

RECOMMENDED FOUIPMENT

Watercourse Description: Creek, 25 ft wide, mud and rock banks and bottom, 0-2 ft deep, current 0-2 mph.

**Description of Worksite:** Industrial area, multi-lane paved road access, heavy traffic.

**Critical Response Information:** Air monitoring and PPE per Site Safety Plan.

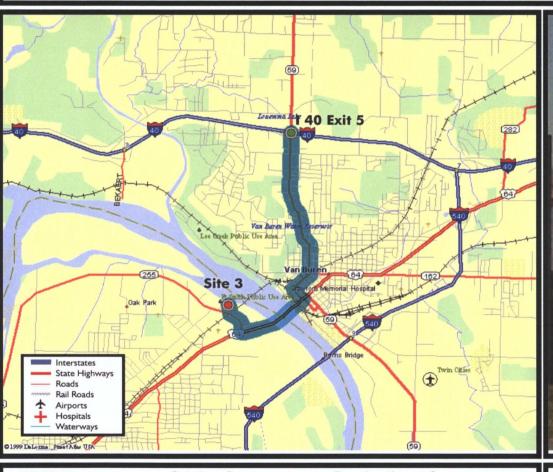
Date Last Revised: December 2001

Site 2

Site 3 Ft. Smith Terminal

RECOMMENDED EQUIPMENT







#### RESPONSE STRATEGY

Latitude/Longitude: N 35° 25' 52"/W 94° 22' 12"

Location: Sebastian County, Fort Smith, AR

Water Way: Arkansas River

Owner: TBD

Distance from Spill Source: 12-15 miles

Map Reference: Van Baren

Response Objective: Containment and Recovery

Response Tactic: - Normal Conditions

Utilize open water recovery techniques. Deploy two crews, each with two boats and 350 ft of containment boom to protect Arkansas River. Prepare crews on shore to recover incoming product. Conduct aerial observation to update crews on movement of product.

#### **LEGEND**

Origin

Destination

#### **DRIVING DIRECTIONS** From I-540 (Exit 5) to SR 59 (Fayetteville Rd):

South on SR 59 (Fayetteville Rd) for 2.3 miles to US 64

South West on US 64 for 0.9 miles to Clayton Expy (SR 255)

North West on Clayton Expy (SR 255) for 0.5 miles to work site.

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QUANTITY	DESCRIPTION	R	ECOMMENDED EQUIPMENT
1000 ft	Containment Boom	QUANTITY	DESCRIPTION
1	Vac Truck(s)		
1	Frac Tank(s)	R	ECOMMENDED PERSONNEL
4	Work Boat(s)	NUMBERS	DESCRIPTION
1	Skimmer(s) - (Suction, Weir, Oleophilic)	NUMBERS	DESCRIPTION
12 bales	Sorbent pad(s)		
2 cases	85 gallon drum liners	1	Supervisor(s)
1	Cell Phone(s)	1	Vac Truck Operator(s)
6	Portable Radios(s)		
1	Light tower(s)	4	Boat Operator(s)
3	Port-o-let(s)	8	Laborer(s)

Watercourse Description: River, 3600 - 4500 ft wide, mud and rock banks and bottom, 10-30 ft deep, current >5 mph.

Description of Worksite: Rural area, multi-lane paved road access, moderate traffic.

Critical Response Information: Air monitoring and PPE per Site Safety Plan.

Date Last Revised: December 2001

Site 3



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#### FIGURE C-4 - POTENTIAL SPILL SOURCES

Container/ Source	Major Type of Failure	Total Capacity (gal)	Secondary Containment Volume Type (gal)	Tank Type	Year Constructed/ Installed	Quantity Stored (gal)	Direction of Flow/Rate (See Plot Plan)	Product Stored
ABOVEGRO	UND CONTAIN	RS - Total:	19,668,006			Fire Calley		
1445	Leak/Failure	844,080	2,326,800 gal/1	C/F/W	1954	565,534	Instantaneous	Distillate
1446	Leak/Failure	12,655,650	1,554,000 gal/1	C/F/W	1954	8,479,286	Instantaneous	Gasoline
1447	Leak/Failure	1,265,300	1,549,800 gal/1	C/F/W	1954	847,751	Instantaneous	Distillate
1448	Leak/Failure	1,370,880	1,625,400 gal/1	C/F/W	1966	918,490	Instantaneous	Gasoline
1449	Leak/Failure	1,371,180	1,726,200 gal/1	C/F/W	1966	918,691	Instantaneous	Gasoline
1450	Leak/Failure	1,263,570	1,890,000 gal/1	C/F/W	1978	846,592	Instantaneous	Gasoline
345	Leak/Failure	42,336		C/F/W	1954	27,510	Instantaneous	Contact Water
537	Leak/Failure	427,400	806,400 gal/1	C/FX/W	1954	286,358	Instantaneous	Distillate
538	Leak/Failure	427,310	806,400 gal/1	C/FX/W	1954	286,298	Instantaneous	Distillate
Diesel	Leak/Failure	150	18,984 gal/2	H/FX/W	2000	137	Instantaneous	Distillate
Gasoline	Leak/Failure	150	18,984 gal/2	H/FX/W	2000	137	Instantaneous	Gasoline
ADDITIVE C	ONTAINERS - T	otal: 28,250						
377-100	Leak/Failure	6,000	18,984 gal/2	H/FX/W		3,900	Instantaneous	Additive
377-110	Leak/Failure	6,000	18,984 gal/2	H/FX/W		3,900	Instantaneous	Additive
377-120	Leak/Failure	2,000	18,984 gal/2	V/FX/W		1,300	Instantaneous	Additive
377-130	Leak/Failure	12,000	18,984 gal/2	H/FX/W		7,800	Instantaneous	Additive
377-133	Leak/Failure	250	18,984 gal/2	H/FX/W	可是用品品的	200	Instantaneous	Additive
377-134	Leak/Failure	2,000	18,984 gal/2	H/FX/W	EMPAIRS DES	1,300	Instantaneous	Additive
BURIED ME	TALLIC STORAG	GE TANKS -	Total: 4,998					
Oil/Water Separator	Leak/Failure	4,998	4,998 gal/5	H/FX/W	1997	3,249	Instantaneous	Water
DRUM STOP	RAGE AREA - To	tal: 550	and the same					
Drum Storage	Leak/Failure	550	4,352 gal/2	N/A		220	Instantaneous	Varies
MISCELLAN	EOUS - Total: 1	0,000						
Terminal Piping	Corrosion	Varies	See Plot Plan	N/A	1954	N/A	Instantaneous	Varies

Note: There are no underground storage tanks or surface impoundments located at this Facility.

\* Not in Containment Area \*\* Curbing and containment system

**Containment Type:** 1-Earthern Berm and Floor, 2-Concrete Berm and Floor, 3-Metal Berm and Floor, 4-Portable Containment or Inside Building, 5-Double Walled

#### FIGURE C-4 - POTENTIAL SPILL SOURCES, CONTINUED

Container/ Source	Major Type of Failure	Total Capacity (gal)	Secondary Containment Volume Type (gal)	Tank Type	Year Constructed/ Installed	Quantity Stored (gal)	Direction of Flow/Rate (See Plot Plan)	Product Stored
WISCELLANE	OUS - Total: 10	,000						
Truck Rack	Overfill	9,000	47,334 gal/**	N/A	1954	N/A	Instantaneous	Varies
Prover	Leak/Failure	1,000	1,700/*	V/FX/W		Varies	Instantaneous	Gasoline

Note: There are no underground storage tanks or surface impoundments located at this Facility.

\* Not in Containment Area \*\* Curbing and containment system

**Containment Type:** 1-Earthern Berm and Floor, 2-Concrete Berm and Floor, 3-Metal Berm and Floor, 4-Portable Containment or Inside Building, 5-Double Walled

 $\label{eq:control_def} \begin{aligned} &\textbf{Tank / Roof Type: } C = &Conical \ or \ Cone, \ D = Dome, \ H = Horizontal, \ L = Lifter, \ S = Spheroid, \ V = Vertical, \ G = Geodesic, \ Fx = Fixed, \ F = Floating, \ W = Welded, \ R = Riveted \end{aligned}$ 

#### FIGURE D.4-2 - PLANNING DISTANCE CALCULATIONS

The total planning distance equals d.

	Ft. Smith Terminal - Arkansas River
First receptor	Lee Creek Public Use Area
First receptor location (miles)	14.29 miles
∞ (feet)	1 foot
_ (miles)	6.99
s (feet/mile)	2.71 x 10 <sup>-3</sup>
Avg. mid-channel depth (feet)	13 feet
r (feet)	8.671
ı	0.036
v (feet/second)	0.915
t (hours)	20
c (seconds per mile/hours per foot)	0.68
d (total planning distance)	12.45

	Ft. Smith Terminal - Mill Creek
First receptor	N/A
First receptor location (miles)	20 miles .
∞ (feet)	100 feet
_ (miles)	7.3
s (feet/mile)	2.59 x 10 <sup>-3</sup>
Avg. mid-channel depth (feet)	1.5 feet
r (feet)	1.005
n	0.05
v (feet/second)	1.53
t (hours)	7
c (seconds per mile/hours per foot)	0.68
d (total planning distance)	7.30